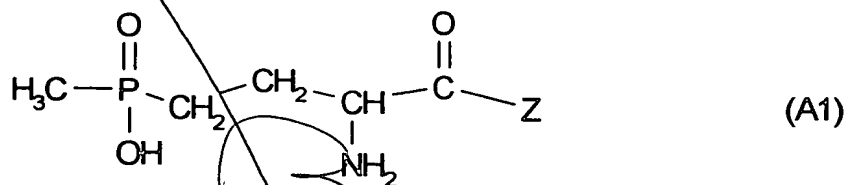


Patent claims for USA:

1. The use of herbicide combinations for controlling harmful plants in maize crops, wherein the herbicide combination in question has a synergistically active content of

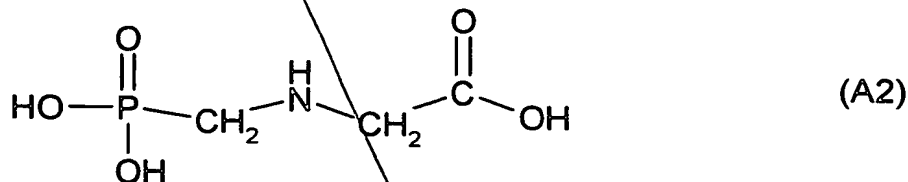
(A) a broad-spectrum herbicide from the group of the compounds consisting of

(A1) compounds of the formula (A1),



in which Z is a radical of the formula -OH or a peptide radical of the formula -NHCH(CH₃)CONHCH(CH₃)COOH or -NHCH(CH₃)CONHCH[CH₂CH(CH₃)₂]COOH, and their esters and salts and other phosphinothricin derivatives,

(A2) compounds of the formula (A2) and their esters and salts,



(A3) imidazolinones,

(A4) herbicidal azoles from the protoporphyrinogen-oxidase inhibitors (PPO inhibitors) and

(A5) cyclohexanedione herbicides and, if appropriate, also

(A6) heteroaryloxyphenoxypropionic acid herbicides,

and

(B) one or more herbicides from the group of the compounds which

(B0) one or more structurally different herbicides from the abovementioned group (A) and/or

(B1) foliar- and soil-acting herbicides which are effective against monocotyledonous and dicotyledonous harmful plants,

(B2) herbicides which can be employed selectively in maize against dicots,

or

(B3) foliar- and soil-acting herbicides which can be employed selectively in maize, predominantly against dicotyledonous harmful plants,

or herbicides from several of groups (B0) to (B3)

and the maize crops are tolerant to the herbicides (A) and (B) which form a constituent of the combination, if appropriate in the presence of safeners.

2. The use as claimed in claim 1, wherein glufosinate-ammonium is employed as active substance (A).
3. The use as claimed in claim 1, wherein glyphosate-isopropylammonium is employed as active substance (A).
4. The use as claimed in claim 1, wherein one or more herbicides from the group consisting of
 - (B0) herbicides (A) from the group of the herbicides (A1) to (A5), which are not identical with component (A), or
 - (B1) herbicides from the group cyanazine, atrazin, terbutylazin, acetochlor, metolachlor, alachlor, terbutryn, benoxacor, nicosulfuron, rimsulfuron, primisulfuron, dimethenamide, fluthiamide, sulcotrione, simazine, mesotrione and pentoxamid or
 - (B2) herbicides from the group pendimethalin, pyridate, iodosulfuron, metosulam, isoxaflutole, metribuzin, cloransulam, flumetsulam, linuron, florasulam and isoxachlortole or
 - (B3) herbicides from the group bromoxynil, dicamba, 2,4-D, clopyralid.

prosulfuron, thifensulfuron, carfentrazone, Lab271272, MCPA, halosulfuron, diflufenzopyr and sulfosulfuron or or of herbicides of several of groups (B0) to (B3) are present as component (B).

5. The use as claimed in claim 1, wherein the herbicide combination comprises other crop protection active ingredients.
6. The use as claimed in claim 1, wherein the herbicide combinations are used together with adjuvants and formulation auxiliaries conventionally used in crop protection.
7. A method of controlling harmful plants in tolerant maize crops, which comprises applying the herbicides of the herbicide combination, if appropriate together with adjuvants or formulation auxiliaries, as defined in claim 1, jointly or separately, pre-emergence, post-emergence or pre- and post-emergence to the plants, parts of the plants, seeds of the plants or the area under cultivation.
8. A herbicidal composition which comprises a combination of one or more herbicides (A) and one or more herbicides from the group (B1') cyanazine, acetochlor, alachlor, terbutryn, benoxacor, fluthiamide, sulcotrione, mesotrione and pentoxamid or (B2') pendimethalin, iodosulfuron, metosulam, isoxaflutole, metribuzin, cloransulam, flumetsulam or else florasulam and isoxachlortole or (B3') bromoxynil, clopyralid, carfentrazone and Lab271272 or else halosulfuron, diflufenzopyr and sulfosulfuron or herbicides of several of groups (B1') to (B3') and, if appropriate, adjuvants or formulation auxiliaries conventionally used in crop protection.

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9. The use of the composition defined in claim 1 for regulating the growth of maize plants.
10. The use of the composition defined in claim 8 for regulating the growth of maize plants.
11. The use of the composition defined in claim 1 for influencing the yield or the constituents of maize plants.
12. The use of the composition defined in claim 8 for influencing the yield or the constituents of maize plants.

add
a1

add
P1

add
C2
Add C3

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